



ADS-B omnidirectional antenna 1030/1090 MHz

OVERVIEW

T-CZ OMNI antenna is designed for usage as an omnidirectional receiving element in ADS-B/MLAT systems, MSSR frequency band monitoring systems, or generally full DME frequency band monitoring solutions.

The final antenna provides clean design package to satisfy highest requirements for both functionality and visual aspects of installations.

ANTENNA PARAMETERS

Frequency Band	1030 ÷ 1090 MHz
Polarization	Linear vertical
Input Impedance	50 Ohm
Connector	N(f)
Return Loss (VSWR)	≥ 15 dB (VSWR ≤ 1.43)
Maximal Gain	≥ 2.1 dBi
Beam width in vertical plane (BW _{-3dB, E})	61 ÷ 65 deg
Horizontal beam circularity	±0.7 dB



MAIN FEATURES

Radiating element is designed as wideband discone antenna. Radiating characteristics are approximately equal to vertical dipole element. Horizontal radiating characteristics are omnidirectional. Vertical radiating characteristics are approximately equal to cos² function. Frequency band of antenna dipole like behavior is 962 ÷ 1213 MHz (DME frequency band).

Antenna radiating element is covered with fiberglass radome. Antenna radiating element and feeding structure is designed as one conductive element, all at ground potential. This DC equipotential structure serves for circuits connected to antenna output as a partial protection against lightning induced transients

T-CZ order code

7QN62209

